

8EHQ-1194-13266

DuPont Central Research  
and Development  
Haskell Laboratory for Toxicology  
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P.O. Box 50, Elkton Road  
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DuPont Central Research  
and Development



8EHQ-94-13266  
INIT 12/05/94

December 1, 1994

A

**EXPRESS MAIL - RETURN RECEIPT REQUESTED**

Document Processing Center (TS-790)  
Attention: 8(e) Coordinator  
Office of Pollution Prevention and Toxics  
U. S. Environmental Protection Agency  
401 M Street SW  
Washington, D.C. 20460

**Contains No CBI**



88950000056

Dear 8(e) Coordinator:

This letter is to inform you of the preliminary results of a series of four- and six-hour range-finding inhalation exposures conducted in rats with perfluoropentene-2 (PFP, CAS#72804-49-0) at concentrations of 2800 to 5000 ppm. Immediately after a single six-hour exposure at 5000 ppm, 2 of 6 rats showed severe convulsions over a period of about 10 minutes. One of the convulsing rats subsequently showed hind limb paralysis possibly as a result of an injury incurred during convulsions. No convulsions were observed in other exposures with PFP below 5000 ppm; however, there was a reduced response to a sound stimulus observed when rats were exposed at 2800 ppm and higher.

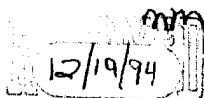
The above clinical signs appear to meet the criteria for substantial risk reporting, as described in EPA's June 1991 "TSCA Section 8(e) Reporting Guide". Note, however, that submission of this information is not meant to imply that DuPont considers these findings to reasonably support a conclusion that exposure to PFP results in a substantial risk to health. Further, PFP is a site-limited research chemical used in closed equipment and there are no merchant sales and hence no public exposure to this compound.

Sincerely,

*Charles F. Reinhardt*

Charles F. Reinhardt, M.D.  
Director

CFR:dj  
(302)366-5285



94 DEC -5 11 00 AM



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

Dr. Charles F. Reinhardt  
E. I. Du Pont De Nemours and Company  
Haskell Laboratory for Toxicology and Industrial Medicine  
P.O. Box 50, Elkton Road  
Newark, Delaware 19714-0050

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

DEC 27 1994

EPA acknowledges the receipt of information submitted by your organization under Section 8(e) of the Toxic Substances Control Act (TSCA). For your reference, copies of the first page(s) of your submission(s) are enclosed and display the TSCA §8(e) Document Control Number (e.g., 8EHQ-00-0000) assigned by EPA to your submission(s). Please cite the assigned §8(e) number when submitting follow-up or supplemental information and refer to the reverse side of this page for "EPA Information Requests".

All TSCA §8(e) submissions are placed in the public files unless confidentiality is claimed according to the procedures outlined in Part X of EPA's TSCA §8(e) policy statement (43 FR 11110, March 16, 1978). Confidential submissions received pursuant to the TSCA §8(e) Compliance Audit Program (CAP) should already contain information supporting confidentiality claims. This information is required and should be submitted if not done so previously. To substantiate claims, submit responses to the questions in the enclosure "Support Information for Confidentiality Claims". This same enclosure is used to support confidentiality claims for non-CAP submissions.

Please address any further correspondence with the Agency related to this TSCA §8(e) submission to:

Document Processing Center (7407)  
Attn: TSCA Section 8(e) Coordinator  
Office of Pollution Prevention and Toxics  
U.S. Environmental Protection Agency  
Washington, D.C. 20460-0001

EPA looks forward to continued cooperation with your organization in its ongoing efforts to evaluate and manage potential risks posed by chemicals to health and the environment.

Sincerely,

*Terry R. O'Bryan*

Terry R. O'Bryan  
Risk Analysis Branch

Enclosure

13266 A



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contains at least 50% recycled fiber

### Triage of 8(e) Submissions

Date sent to triage: APR 06 1995

NON-CAP

CAP

Submission number: 13266A

TSCA Inventory:

Y

N

D

Study type (circle appropriate):

Group 1 - Dick Clements (1 copy total)

ECO

AQUATO

Group 2 - Ernie Falke (1 copy total)

ATOX

SBTOX

SEN

w/NEUR

Group 3 - Elizabeth Margosches (1 copy each)

STOX

CTOX

EPI

RTOX

GTOX

STOX/ONCO

CTOX/ONCO

IMMUNO

CYTO

NEUR

Other (FATE, EXPO, MET, etc.):

Notes:

**THIS IS THE ORIGINAL 8(e) SUBMISSION; PLEASE REFILE AFTER TRIAGE DATABASE ENTRY**

		For Contractor Use Only			
entire document:	<u>0</u>	1	2	pages	<u>1</u>
Notes:					
Contractor reviewer:			<u>UPS</u>	Date:	<u>1/30/95</u>

## CECATSTRIDGE TRACKING DBASE ENTRY FORM

CECATS DATA  
Submission # SEHQ. 1294-13266 SEQ. ATYPE: INT SUPP FLWPSUBMITTER NAME: Dupont CentralResearch and DevelopmentINFORMATION REQUESTED: FLWP DATE: \_\_\_\_\_  
0501 NO INFO REQUESTED  
0502 INFO REQUESTED (TECH)  
0503 INFO REQUESTED (VOL ACTIONS)  
0504 INFO REQUESTED (REPORTING RATIONAL F)  
DISPOSITION:  
☒ 0639 REFER TO CHEMICAL SCREENING  
0678 CAP NOTICEVOLUNTARY ACTIONS:  
☒ 0401 NO ACTION REPORTED  
0402 STUDIES PLANNED FOR IT D  
0403 NOTIFICATION OF WORKING ACTION  
0404 LABEL/MSDS (CHANGE)  
0405 PROCESS/AND/ING (CHANGE)  
0406 APP/USE DISCONTINUED  
0407 PRODUCTION DISCONTINUED  
0408 CONFIDENTIALSUB. DATE: 12/01/94 OTS DATE: 12/05/94 CSRAD DATE: 12/19/94

CHEMICAL NAME:

Perfluoropentene-2

CASE#

72804-49-0

INFORMATION TYPE:		P F C	INFORMATION TYPE:		P F C	INFORMATION TYPE:		P F C
0201	ONCO (HUMAN)	01 02 04	0216	EPICLIN	01 02 04	0241	IMMUNO (ANIMAL)	01 02 04
0202	ONCO (ANIMAL)	01 02 04	0217	HUMAN EXPOS (PROD CONTAM)	01 02 04	0242	IMMUNO (HUMAN)	01 02 04
0203	CELL TRANS (IN VITRO)	01 02 04	0218	HUMAN EXPOS (ACCIDENTAL)	01 02 04	0243	CHEM/PHYS PROP	01 02 04
0204	MUTA (IN VITRO)	01 02 04	0219	HUMAN EXPOS (MONITORING)	01 02 04	0244	CLASTO (IN VITRO)	01 02 04
0205	MUTA (IN VIVO)	01 02 04	0220	ECO/AQUA TOX	01 02 04	0245	CLASTO (ANIMAL)	01 02 04
0206	REPRO/ITERATO (HUMAN)	01 02 04	0221	ENV. OCCURREN/FATE	01 02 04	0246	CLASTO (HUMAN)	01 02 04
0207	REPRO/ITERATO (ANIMAL)	01 02 04	0222	EMER INCI OF ENV CONTAM	01 02 04	0247	DNA DAM/REPAIR	01 02 04
0208	NEURO (HUMAN)	01 02 04	0223	RESPONSE REQUEST DELAY	01 02 04	0248	PROD/USE/PROC	01 02 04
0209	NEURO (ANIMAL)	01 02 04	0224	PROD/COMP/CHEM ID	01 02 04	0251	MSDS	01 02 04
0210	ACUTE TOX. (HUMAN)	01 02 04	0225	REPORTING RATIONALE	01 02 04	0259	OTHER	01 02 04
0211	CHR. TOX. (HUMAN)	01 02 04	0226	CONFIDENTIAL	01 02 04			
0212	ACUTE TOX. (ANIMAL)	01 02 04	0227	ALLERG (HUMAN)	01 02 04			
0213	SUB ACUTE TOX (ANIMAL)	01 02 04	0228	ALLERG (ANIMAL)	01 02 04			
0214	SUB CHRONIC TOX (ANIMAL)	01 02 04	0239	METAB/PHARMACO (ANIMAL)	01 02 04			
0215	CHRONIC TOX (ANIMAL)	01 02 04	0240	METAB/PHARMACO (HUMAN)	01 02 04			

TRIDGE DATA: NON-CBI INVENTORY

YES

ONGOING REVIEW

YES (DROP/REFER)

CAS SR

NO

NO (CONTINUE)

SPECIES

RAT

TOXICOLOGICAL CONCERN:

LOW

MED

HIGH

USE:

PRODUCTION:

Site-limited research

INFORMATION

REVIEW

-CPSS-

> <ID NUMBER>  
8(E)-13266A

> <TOX CONCERN>  
L

> <COMMENT>  
ACUTE INHALATION TOXICITY IN RATS IS OF LOW CONCERN. SINGLE 6-  
HOUR EXPOSURES OF 2800 PPM TO 5000 PPM TO GROUPS OF 6 RATS EACH  
WERE ASSOCIATED SIGNS OF NEUROTOXICITY INCLUDING SEVERE  
CONVULSIONS AND HIND LIMB PARALYSIS (2/6 RATS AT 5000 PPM) AND  
REDUCED RESPONSE TO SOUND (2800 PPM AND HIGHER). NO DEATHS WERE  
NOTED.

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